

Claims

- [c1] 1. A color adjusting method for a light source, used for an optical scan module which comprises at least a light source, a reflection mirror set, a lens set and an optical detector, wherein the light source is used to radiate a document to obtain an imaging light, the reflection mirror set is disposed on an optical path of the imaging light to project the imaging light onto the optical detector, and the lens set is located on the optical path between the optical detector and the reflection mirror set, the method comprising:
providing a reflector at an opposing side of a side where the document is radiated in the optical source, a color of the reflector being selected from a group consisting red, green and blue colors to reflect and enhance intensity of the selected color for the light source.
- [c2] 2. A color adjusting method for a light source, used for an optical scan module which comprises at least a light source, a reflection mirror set, a lens set and an optical detector, wherein the light source is used to radiate a document to obtain an imaging light, the reflection mirror set is disposed on an optical path of the imaging light to project the imaging light onto the optical detector, and the lens set comprises at least one lens and is located on the optical path between the optical detector and the reflection mirror set, the method comprising:
forming a transparent plating film on a surface of the lens, a color of the transparent plating film being selected from a group consisting of red, green and blue colors to reflect and enhance intensity of the selected color for the light source.
- [c3] 3. The method according to Claim 2, wherein the step of forming the transparent plating film includes evaporation plating process.
- [c4] 4. A color adjusting method for a light source, used for an optical scan module which comprises at least a light source, a reflection mirror set, a lens set and an optical detector, wherein the light source is used to radiate a document to obtain an imaging light, the reflection mirror set is disposed on an optical path of the imaging light to project the imaging light onto the optical detector, and

the lens set comprises at least one lens and is located on the optical path between the optical detector and the reflection mirror set, the method comprising:

changing the lens into a specific color selected from a group consisting of red, green and blue color, such that intensity of the selected color for the light source is enhanced.

[c5] 5. A color adjusting method for a light source, use for an optical scan module which comprises at least a light source, a reflection mirror set, a lens set and an optical detector, wherein the light source is used to radiate a document to obtain an imaging light, the reflection mirror set is disposed on an optical path of the imaging light to project the imaging light onto the optical detector, and the lens is located on the optical path between the optical detector and the reflection mirror set, the method comprising:
providing an adjusted color light source to replace the light source, the adjusted color being selected from a group consisting of red, green and blue colors to reflect and enhance intensity of the selected color for the light source.

[c6] 6. A color adjusting apparatus for a light source, used for an optical scan module which comprises at least a light source, a reflection mirror set, a lens set and an optical detector, wherein the light source is used to radiate a document to obtain an imaging light, the reflection mirror set is located on an optical path of the imaging light, so that the imaging light is projected to the optical detector, and the lens set is located on the optical path between the optical detector and the reflection mirror set, the color adjusting apparatus comprising:
a reflector, located at the light source at one side opposing to the other side where the document is radiated by the light source, the reflector has a color selected from a group of red, green and blue colors.

[c7] 7. A color adjusting apparatus for a light source, use for an optical scan module which comprises at least a light source, a reflection mirror set, a lens set and an optical detector, wherein the light source is used to radiate a document to obtain an imaging light, the reflection mirror set is located on an optical path of

the imaging light, so that the imaging light is projected to the optical detector, and the lens set comprises at least a lens and is located on the optical path between the optical detector and the reflection mirror set, the color adjusting apparatus comprising:

a transparent plating film, formed on a surface of the lens, wherein a color of the transparent plating film is selected from a group of red, green and blue colors.

- [c8] 8. An optical scan module to scan a document, comprising:
- a light source, to radiate the document to obtain an imaging light;
 - a reflector, installed in the light source at an opposing side of a side where the document is radiated, the reflector has a color selected from a group consisting of red, green and blue colors to reflect and enhance light source intensity of the selected color;
 - a reflection mirror set, disposed on an optical path of the imaging light to receive and reflect the imaging light;
 - a lens set, disposed on the optical lens of the imaging light allowing the imaging light reflected from the reflection mirror set passing therethrough; and
 - an optical detector, disposed on the optical path of the imaging light to receive the imaging light passing through the lens set.

- [c9] 9. An optical scan module to scan a document, comprising:
- a light source, to radiate the document to obtain an imaging light;
 - a reflection lens set, disposed on an optical path of the imaging light to receive the imaging light;
 - a lens set, disposed on the optical lens of the imaging light allowing light reflected from the reflection mirror set passing therethrough, the lens set comprising at least one lens, wherein a transparent plating film is formed on a surface of the lens, and the transparent plating film has a color selected from a group consisting of red, green and blue colors; and
 - an optical detector, disposed on the optical path of the imaging light to receive the imaging light passing through the lens set.

- [c10] 10. An optical scan module to scan a document, comprising:

a light source, to radiate the document to obtain an imaging light;
a reflection lens set, disposed on an optical path of the imaging light to receive the imaging light;
a lens set, disposed on the optical lens of the imaging light allowing light reflected from the reflection mirror set passing therethrough, the lens set comprising at least one lens of which a color is selected from a group consisting of red, green and blue colors; and
an optical detector, disposed on the optical path of the imaging light to receive the imaging light passing through the lens set

11. An optical scan module to scan a document, comprising:

a light source, selected from a group consisting of a red, a green and a blue color light source to radiate the document to obtain an imaging light;
a reflection lens set, disposed on an optical path of the imaging light to receive the and reflect the imaging light;
a lens set, disposed on the optical lens of the imaging light allowing light reflected from the reflection mirror set passing therethrough; and
an optical detector, disposed on the optical path of the imaging light to receive the imaging light passing through the lens set